

# INTERNATIONAL SEARCH REPORT

International Application No

PC 01/01559

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H04M11/00 G06F1/32

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04M H04L G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>"G.992.2 - Splitterless asymmetric digital subscriber line (ADSL) transceivers" ITU-T SERIES G: TRANSMISSION SYSTEMS AND MEDIA, DIGITAL SYSTEMS AND NETWORKS, 'Online! 30 June 1999 (1999-06-30), pages 93-99, XP002186290 Retrieved from the Internet: &lt;URL:http://www.ihserc.com&gt; 'retrieved on 2001-12-20! paragraphs '13.1!', '13.2!', '13.3!', '13.4.5!', '13.5! --- -/--</p>	1-20

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

**\* Special categories of cited documents:**

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

20 December 2001

Date of mailing of the international search report

16/01/2002

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## INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 01/01559

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 956 323 A (BOWIE BRUCE H) 21 September 1999 (1999-09-21) abstract column 2, paragraph 3 - paragraph 5 column 5, paragraph 2 - paragraph 6 column 7, line 15 - line 18 figure 3 ---	1-20
A	WO 00 52919 A (ADVANCED MICRO DEVICES INC) 8 September 2000 (2000-09-08) abstract page 4, paragraph 2 page 5, paragraph 5 -page 6, paragraph 3 -----	1,9,10, 13,19,20

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 01/01559

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5956323	A	21-09-1999	AU 8670398 A	22-02-1999
			CN 1276948 T	13-12-2000
			EP 1005755 A1	07-06-2000
			JP 2001512937 T	28-08-2001
			NO 20000402 A	27-03-2000
			WO 9907162 A1	11-02-1999
WO 0052919	A	08-09-2000	WO 0052919 A1	08-09-2000